



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,798	12/08/2005	Andreas Tagesson	PD53573US01	7482
58561 7590 05/30/2008 HARRITY SNYDER, L.L.P. 11350 RANDOM HILLS ROAD SUITE 600 FAIRFAX, VA 22030			EXAMINER NGUYEN, SIMON	
			ART UNIT 2618	PAPER NUMBER
			MAIL DATE 05/30/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/559,798

Applicant(s)

TAGESSON ET AL.

Examiner

SIMON D. NGUYEN

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 December 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. The subject matter of this application admits of illustration by a drawing to facilitate understanding of the invention. Applicant is required to furnish a drawing under 37 CFR 1.81(c). No new matter may be introduced in the required drawing. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d).

For figs. 1, 2, and 4, components marked by numbers need to be named or labeled (for example, 18= power amplifier) in order for those ordinary in the art to understand the invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 14, 16, 17, 22, 23, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Boesch et al. (6,188,877).

Regarding claims 14, 16, 17, 22, 23, and 27, Boesch discloses a multi-band amplifier in a transmitter (abstract, fig. 7), comprising: transmitting a 800 MHz signal

Art Unit: 2618

band in a first connection to a signal processing unit (power amplifier (combined 702, 212, 414, 604); transmitting a 1900 MHz signal band in a second connection to a power amplifier; breaking the second connection to allow only the 800 MHz signal band to connect to the power amplifier by closing switch 724 and opening switches 722, 724 or connecting to the 19 MHz signal band by closing switch 722 and opening switches 724, 726, wherein the transmission signals are modulated which means the transmitter inherently comprises a modulator (fig. 7, abstract, column 10 lines 30-67).

4. Claims 14-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Adar (5,774,017).

Regarding claim 14, Adar discloses a multi-band amplifier in a transmitter (column 1 lines 4-6, fig. 5A, abstract), comprising: transmitting a 800 MHz signal band in a first connection to a signal processing unit (power amplifier (152); transmitting a 1900 MHz signal band in a second connection to a power amplifier; breaking the second connection to allow only the 800 MHz signal band to connect to the power amplifier by turning off switch 192 or vice versa (fig. 5A, column 9 lines 57-62). It should be noted that a signal generating unit or a modulator is inherently in a transmitter.

Regarding claims 16, this claim is rejected for the same reason as set forth in claim 14, wherein the PA receives either the 800 MHz or 1900 MHz signal bands.

Regarding claim 17, this claim is rejected for the same reason as set forth in claim 14.

Regarding claims 22, 23, and 27, these claims are rejected for the same reason as set forth in claim 14.

Regarding claims 15, 18, Adar discloses one signal band connected to the PA and another signal band is blocked by controlling switches 190, 192 with a control signal (column 9 lines 57-62, column 6 line 40, abstract).

Regarding claim 19 Adar further discloses RF switches (190, 192) for connecting/disconnecting either one of the two-transmission signals (fig. 5A).

Regarding claim 20, Adar discloses different modulation techniques for 800MHz and 1900 MHz (column 1 lines 46-54), which means the transmitter inherently comprises a modulator for generating the 800 or 1900 MHz signal bands).

Regarding claim 21, Adar further discloses the signal processing unit as a PA (fig. 5A, column 4 line 50).

Regarding claims 24-26, Adar further discloses the system can be applied in a cellular phone, a base station (column 2 lines 1-32, column 6 lines 28-35).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Nguyen whose telephone number is (571) 272-7894. The examiner can normally be reached on Monday-Friday from 7:00 AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban, can be reached on (571) 272-7899. The fax phone

Art Unit: 2618

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

May 27, 2008

/SIMON D NGUYEN/
Primary Examiner, Art Unit 2618